

## ABSTRACT

This multi-bladed scalpel addresses the problem of making many small incisions in very close proximity ( as close as 0.030" / 0.75 mm ) to each other, to facilitate hair transplantation. With this device, it is possible to make multiple incisions in such proximity. With the blades mounted parallel to each other, at the desired spacing, each incision does not intersect neighboring incisions, so the follicles placed in each incision will be surrounded by the maximum amount of undisturbed tissue to promote revascularization - capillary growth to provide a blood supply to each transplanted follicle. CNC machining techniques are used to create the blade holders with blade mounting sites created at the desired proximity. Medical grade epoxy is used to mount the blades, which are mounted parallel to each other. Holes are drilled so the tips of the blade group are located in a plane at an angle with respect to the blade holder for ergonomic reasons

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